

# Product Finder with Quantity Calculation - Magento 2

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Firefox user notice:

Please use different web browser to view this document.

Sorry for the inconvenience.

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Create complex questionnaires for customers and provide product recommendations as a result of their answers with Product Finder with Quantity Calculation for Magento 2! Each question can affect the final result, and you are able to precisely configure conditions for each option. The quantity calculator tool calculates the product's add-to-cart quantity based on user input values and previously defined product attribute values.

Compatibility: Magento Open Source 2.2.X - 2.3.0,  
Magento Commerce 2.2.X - 2.3.0

[Product Page](#)

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## Installing Product Finder with Quantity Calculation

Command Line Installation

1. Backup your web directory and store database

2. Download the 'Product Finder with Quantity Calculation' installation package

3. Navigate to your store root folder in the SSH console of your server:

```
cd  
path_to_the_store_root  
_folder
```

and create the Ewave vendor directory:

```
mkdir -p  
app/code/Ewave
```

4. Upload the contents of the 'Product Finder with Quantity Calculation' installation package to your store

```
/app/code/Ewave
```

directory

5. Run the following command from your store root directory:

```
php -f bin/magento  
module:enable  
Ewave_Base  
Ewave_ProductCalculato  
r  
Ewave_QuantityCalculat  
or
```

then:

```
php -f bin/magento  
setup:upgrade
```

after:

```
php -f bin/magento  
setup:static-content:d  
eploy
```

6. Flush the store cache; log out from the backend and log in again



Make sure the installation is done from under the FTP administrator account. Otherwise, make sure to set 775 permissions to the store root directory after the extension is deployed.

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## Introducing Product Finder with Quantity Calculation

Provide targeted product suggestions based on customer feedback with Magento 2 Product Finder with Quantity Calculation! Create question forms with questions of the 'radio button' and/or 'checkbox' input types. For better form presentation, divide questions by categories. Make forms even more convenient for users to navigate by splitting question categories into groups. Automatically calculate add-to-cart quantity per each offered item with the provided calculation tool.

### Extension Logic

#### Back-office Features

- Create any number of questions and split them into groups;
- Each question can affect the final result depending on the Magento condition control;
- Questions can be organized by groups. Groups can be of the 'checkbox' or 'radio-button' input types. You can mark any group as mandatory;
- For styling purposes, groups of questions can be united into categories (e.g. questions separated by tabs);
- Each Product Finder can work with a custom list of products;
- Each Product Finder can be shown in a separate widget;
- Product finder result grid can be separated by categories;
- Product finder results can be sent to an external URL;
- Each Product Finder can have one Quantity Calculator assigned. The Quantity Calculator is used to define the product add-to-cart quantity value in the product finder result grid;
- Each Quantity Calculator can have its own range of products to operate with;
- Each Quantity Calculator can have an unlimited number of input fields (numeric), each with a custom calculation logic.

#### Storefront Features

- Product Finder questions are grouped by groups and categories so there are a lot of possibilities for custom styling;
- Each Product Finder / Quantity Calculator can be shown as a widget anywhere on the website;
- Product Finder can have the checkbox and radio button input types, while the Quantity Calculator creates text fields for numeric values;
- Product Finder shows a product grid as a result of calculation, products can be separated by categories;
- Customers will see the add-to-cart quantity input field in the result grid. The value can be changed with the Quantity Calculator.

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## Backend Configuration

### Basic Extension Parameters

[Add New Product Finder](#)

Go to Ewave > Product Finders and click [Add New Product Finder](#). The system will open the 'New Product Finder' page:

← Back

Save and Continue Edit

Save Product Finder

## Product Finder Information

Product Finder Name \*

Use Custom Result Url  ▾

If set up 'Yes' - calculator's result data will be sent to the custom URL.

Product Finder Button Label \*

Number Of Products On Result Grid \*

If set to '0' - No products will be displayed.

Separate Products By Categories  ▾

Number Of Products For Each Category \*

Status \*  ▾

Priority

## List of products to apply



### Conditions

If ALL of these conditions are TRUE :



## Quantity Calculator

Use Quantity Calculator  ▾

## Field Group Categories

Add Field Group Category

New Field Group Category

The 'Product Finder Information' section has the following options:

- Product Finder Name - Product Finder system name;
- Use Custom Result Url - if set to 'Yes', the Product Finder's result data will be sent to the custom URL, so no action will be performed on the page;
- Product Finder Button Label - here you need to specify the label for the find action button on the storefront;
- Number Of Products On Result Grid - here you need to specify how many products will be shown in the result grid. If set to '0', no products will be displayed;
- Separate Products By Categories - you can define if the Product Finder's results should be divided based on categories;
- Number Of Products For Each Category - here you need to specify how many products will be shown in the result grid for each category;
- Status - enables/disables the Product Finder;
- Priority - here you need to specify the Product Finder's priority.

In the 'List of products to apply' section, you need to specify the range of products the Product Finder should work with, e.g. the input array of products

before calculation. The Magento 'Conditions' control can be used for this purpose.

For example, you can specify particular categories the calculator should work with or the products with a specific attribute value.

If you leave this section empty, all the available products will be used.

In the 'Quantity Calculator' section, you can assign the Quantity Calculator to the Product Finder. First, you should create the Quantity Calculator.



Only one Quantity Calculator can be assigned to the Product Finder.

'No Quantity Calculator' should be selected if you do not want to use any.

At least one 'Field Group Category' should be added to the Product Finder. In this section, you can create a new Field Group Category or assign the previously created one. One Field Group Category can belong to several Product Finders. You can also remove categories from the grid.

Next, you need to configure Field Group Categories.

## Field Group Category configuration

[Add New Field Group Category](#)

Go to Ewave > Field Group Categories and click [Add New Field Group Category](#). The same action can be performed on the Add/edit Product Finder page in the 'Field Group Categories' section.

The system will open the 'New Field Group Category' page.

The 'General Information' section provides the following options:

- Category - Field Group Category system name;
- Description - category description, HTML tags can be used. Will be shown on the storefront;
- Status - enables/disables the Field Group Category;
- Priority - here you should specify the field group category's priority. Can be used to sort several categories within one Product Finder;
- Label - category header visible on the storefront. Will be shown before the description. If empty – will not be shown.

At least one 'User Input Field Group' should be added to the Field Group Category. In this section, you can create a new User Input Field Group or assign the previously created one. One User Input Field Group can belong to several Field Group Categories. You can also remove field groups from the grid.

Next, you need to configure User Input Field Groups.

## User Input Field Groups

**Add New Field Group**

Go to Ewave > User Input Field Groups and click **Add New Field Group**. The same action can be performed on the Add/edit Field Group Category page in the 'User Input Groups' section.

The system will open the 'New User Input Filed Group' page:

### New User Input Field Group

← Back   Save and Continue Edit   **Save Field Group**

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#### General Information

**Group Name \***

**Description**

**Status \*** Active

**Priority**

**Label**   
Label, visible to the customer

**Css Class**

**Is Mandatory \*** No

**Mandatory User Notice \*** Please, select an option

**Type \*** Checkbox

**Custom Field Name For Request**   
Field name used by system for request, invisible to the customer

**System Field Value \*** Id   
Field value used by system, invisible to the customer

---

#### Fields

**Add User Input Fields**   **New User Input Fields**

The 'General Information' section includes the following options:

- Group Name - User Input Field Group system name;
- Description - the User Input Field Group's description, HTML tags can be used. Will be shown on the storefront;
- Status - enables/disables the User Input Field Group;
- Priority - here you need to specify the input field group's priority. Can be used to sort several groups within one category;

- Label - the Input Field Group's header visible on the storefront. Will be shown before the description. If left empty, the header will not be shown;
- Css Class - a CSS class custom postfix for a field group;
- Is Mandatory - set the Input Field Group as mandatory so that customers will need to make a selection in the Input Field Group;
- Mandatory User Notice - a message that will be shown to customers on the storefront if they didn't make a choice;
- Type - the Input Field Group's type. The extension provides two input types: radio buttons and checkboxes. A single Input Field Group can have only one input type. That is, to use different input types, you need to create separate Input Groups;
- Custom Field Name For Request - a field name used by the system for requests. Not visible to customers;
- System Field Value - a field value used by the system. Not visible to customers.

At least one 'User Input Field' should be added to the User Input Field Group. In the 'Fields' section, you can create a new User Input Field or assign the previously created one. One User Input Field can belong to several User Input Field Groups. You can remove fields from the grid in this section.

Next, you need to configure User Input Fields.

## User Input Fields

A rectangular button with an orange background and white text that reads "Add New User Input Field".

Go to Ewave > User Input Fields and click [Add New User Input Field](#). The same action can be performed on the Add/edit User Input Field Group page in the 'Fields' section.

The system will open the 'New User Input Field' page:

# New User Input Field Group

← Back

Save and Continue Edit

Save Field Group

## General Information

Group Name \*

Description

Status \* Active

Priority

Label

Label, visible to the customer

Css Class

Is Mandatory \* No

Mandatory User Notice \*

Type \* Checkbox

Custom Field Name For Request

Field name used by system for request, invisible to the customer

System Field Value \* Id

Field value used by system, invisible to the customer

## Fields

Add User Input Fields

New User Input Fields

The 'User Input Information' section introduces the following parameters:

- Name - User Input Field system name;
- Field Icon Image - an image can be added to each input field. Allowed file types: png, gif, jpg, jpeg, svg;
- Status - enables/disables User Input;
- Priority - here you need to specify the input field's priority. Can be used to sort several fields within one group;
- Label - the input Field label displayed on the storefront;
- Css Class - a CSS class custom postfix for a field.

Specify the actions that the system should perform in the 'User Input Rule' section. Here you can set the number of products that should be displayed to customers if they select this particular User Input.



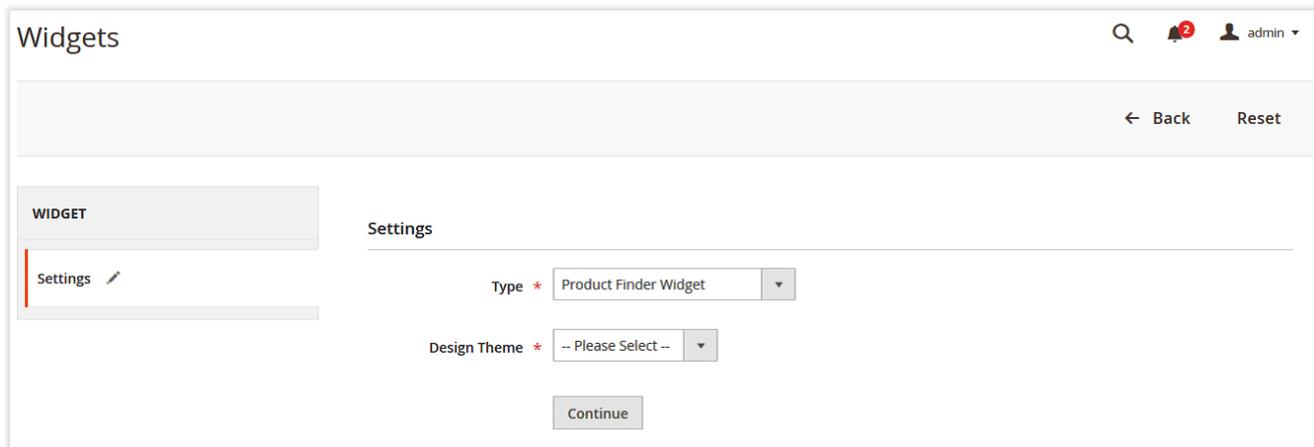
Do not forget that the extension has an incoming array of products (specified in the 'List of products to apply' section on the Product Finder parameter page). So, here you can specify the calculator's output using various conditions or condition combination.

## Adding Product Finder Widget

After you configured the Product Finder, you need to add it as a widget to show on the storefront.

Go to Content > Widgets and click **Add Widget**. The system will open the 'New Widget' page.

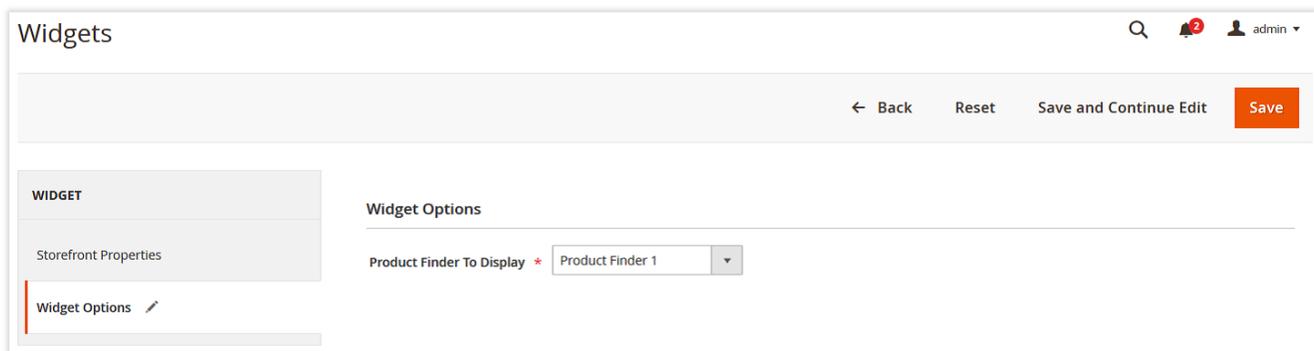
Select the 'Product Finder Widget' option in the 'Type' box. Choose the appropriate Design Theme and click **Continue** :



The screenshot shows the 'Widgets' configuration interface. At the top right, there are search, notification (2), and user (admin) icons. Below the header, there are 'Back' and 'Reset' buttons. The main content area is divided into a left sidebar and a main settings area. The sidebar has a 'WIDGET' section with a 'Settings' link. The main settings area is titled 'Settings' and contains two dropdown menus: 'Type \*' set to 'Product Finder Widget' and 'Design Theme \*' set to '-- Please Select --'. A 'Continue' button is located at the bottom center.

Specify all the necessary widget fields: Widget Title, Layout Updates, etc. Then, open the 'Widget Options' tab and set up the Product Finder you want to be shown in the widget in the 'Product Finder to Display' setting.

 Only one Product Finder can be assigned to a widget.



The screenshot shows the 'Widgets' configuration interface with the 'Widget Options' tab selected. The top right navigation bar now includes 'Back', 'Reset', 'Save and Continue Edit', and a red 'Save' button. The main settings area is titled 'Widget Options' and contains a dropdown menu for 'Product Finder To Display \*' set to 'Product Finder 1'. The left sidebar has a 'WIDGET' section with 'Storefront Properties' and 'Widget Options' links.

Then, you can open a page where the widget will be shown and observe the result (do not forget to refresh cache types).

## Configuring Quantity Calculator

Go to Ewave > Quantity Calculators and click **Add New Calculator**. The system will open the 'New Calculator' page:

# New Calculator

🔍 🔔 2 👤 admin ▾

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← Back Save and Continue Edit Save Calculator

---

## General Information

**Name \***

**Status \*** Active ▾

**Priority**

**Count Attribute** No Attribute ▾  
Attribute should have "Use in Product Listing" option set to "Yes" to be displayed in the list. Only attribute which has a numeric value could be used for calculation.

**Count Method \*** Divide ▾  
Count result will be: User Inputs result {method} Attribute value (rounded upwards to an integer)

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## Rules

**List Of Products**

If ALL of these conditions are TRUE :

⊕

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## Quantity Inputs

Add Quantity Input
New Quantity Input

The 'General Information' section includes the following options:

- Name - Quantity Calculator system name;
- Status - enables/disables the Quantity Calculator;
- Priority - here you need to specify the Quantity Calculator's priority;
- Count Attribute - the attribute should have the 'Use in Product Listing' option set to 'Yes'. Only an attribute which has a numeric value can be used for calculation;
- Count Method - the count result will be: User Inputs result {method} Attribute value (rounded upwards to an integer).

In the 'List of products' section, you can specify the range of products the Quantity Calculator should work with, e.g. the input array of products before calculation. The Magento 'Conditions' control can be used for this purpose.

For example, you can specify particular categories the calculator should work with (the products with a specific attribute value).



The Quantity Calculator will always be assigned to the Product Finder, so do not forget that the Product Finder has an incoming array of products (specified in the 'List of products to apply' section on the Product Finder parameter page). So here you can specify the calculator's output using various conditions or condition combination.

If you leave this section empty, all available products will be used.

At least one 'Quantity Input' should be added to the Quantity Calculator. In the 'Quantity Inputs' section, you can create a new Quantity Input Field or assign the previously created one. One Quantity Input Field can belong to several Quantity Calculators. You can also remove fields from the grid in this section.

Next, you need to configure User Input Fields.

## Configuring Quantity Inputs

[Add New Input](#)

Go to Ewave > Quantity Inputs and click [Add New Input](#). The same action can be performed on the Add/edit Quantity Calculator page in the 'Quantity Inputs' section.

The system will open the 'New Quantity Input' page:

**New Quantity Input**

← Back   Save and Continue Edit   **Save Input**

### General Information

Name \*

Status \* Active ▼

Priority

Default Value

Count Ratio \*

Count Action \* Multiplication ▼

Calculator will take User Input value and make 'Count Action' to 'Count Ratio'

Min Value

Max Value

Input Error Message

The 'General Information' section provides the following options:

- Name - Quantity Input system name;
- Status - enables/disables the Quantity Input;
- Priority - here you need to specify the Quantity Input's priority;
- Default Value - the User Input's default value;
- Count Ratio - the ratio that should be used for calculation;
- Count Action - the calculator will take the User Input value and perform 'Count Action' to 'Count Ratio';
- Min Value - the User Input minimum allowed value;
- Max Value - the User Input maximum allowed value;
- Input Error Message - the User Input validation message.

The Product Finder is configured.

## Usage Examples

### Case 1

Let's imagine that you want to ask a customer several questions and show some products according to the provided answers.

For example, you sell shoes and want to ask the customer's gender, running surface, and distance. Your questionnaire will include a certain number of questions, and each one may affect the output result.

Then, you'll need to create the following structure:

## Product Finder

In the Product Finder setup (the 'List of products to apply' section), you can specify a product category that will be used for the following calculations. For example, 'Sneakers'.

Field Group Category

One Category will be enough in our case but in some situations, Categories can be used by front-end developers to separate questions by lists or tabs.

1. 'Gender' (User Input Field Group - radio button)
  - 'Male' (User Input Field) - in the 'User Input Rule' section, you need to specify the condition according to which only the 'Male' attribute value should be used for this answer;
  - 'Female' (User Input Field) - in the 'User Input Rule' section, you need to specify the condition according to which only the 'Female' attribute value should be used for this answer;
  - 'Running surface' (User Input Field Group - checkbox) - includes the 'Gym', 'Road', and 'Off-road' User Input Fields. In the 'User Input Rule' section, you need to specify the condition according to which the specific attribute values will match this selection. For example, you can have a specific 'Surface' attribute for sneakers at your store.

Add the Product Finder as a widget anywhere you want on your site.

The generated result will be the list of products matching answers along with the incoming list of products. The flow will be the following:

```
\ All products /
\ Product finder list of products /
\ Question 1 answer /
\ Question 2 answer /
{ the result }
```



Each level has a priority field, so calculation will be performed hierarchically from the lowest to the highest priority questions.

It may look very simple, but you can use lots of User Input conditions with a combination of attributes. Create a complex logic by putting several attributes together for one question (using logical operators in the 'Condition' control).

Another extension's benefit is that you can use it anywhere on your website as the widget.

## Case 2

Now let's imagine that you sell bricks and want to recommend customers how much they need to buy according to the size of their building.

In our case, we created a product called 'Stack of bricks' which has an attribute 'Number of bricks = 500'.

We want to recommend customers how many 'Stacks' they should buy according to the wall size they build.

1. To calculate this, we need to create the Quantity Calculator that will use only a specific group of products or particular products (in the 'List of products to apply' section). The Count Attribute should be set as 'Number of bricks'.
2. Then, we need to create the 'What is your size in square meters?' input for the Quantity Calculator.
3. Let's imagine that we know that for one square meter we need 50 bricks on average. Then we need to set up the Quantity Input in the following way:
  - Count Ratio = '50';
  - Count Action = 'Multiplication'.
4. Thus, users will see your question 'What is your wall size in square meters?' with an input.
5. For example, the '100' input value will result in the following calculation:

User input [100] Input count action [\*] Input count ratio [50] Quantity Calculator Count Method [/] Product Attribute Value [500], or  $100 * 50 / 500 = 10$

6. So, the result for our product quantity is 10.

[Product Page](#)

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